

**SYSTEM AND METHOD FOR DISTORTING A BIOMETRIC FOR TRANSACTIONS  
WITH ENHANCED SECURITY AND PRIVACY**

**ABSTRACT**

Authentication methods are very important in several applications. Existing methods of  
5 authentication based on possessions or knowledge have several problems that can be overcome by  
using biometrics. Unfortunately biometrics-based authentication is unrevocable today and has  
many privacy concerns in users' minds. The proposed technique employs signal scrambling and  
morphing techniques to intentionally distort the original biometrics signal in a non-invertible  
fashion. If the security is compromised, the system can cancel a particular distortion and reacquire  
10 the signal with a new distortion function. This provides functionality as good as non-biometric  
authentication methods in terms of their power of revocation.